

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1428109

Luminaire Tested: SQ2W-PP3-K-125U-050D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428109  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PP3-K-125U-050D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE PRISM LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

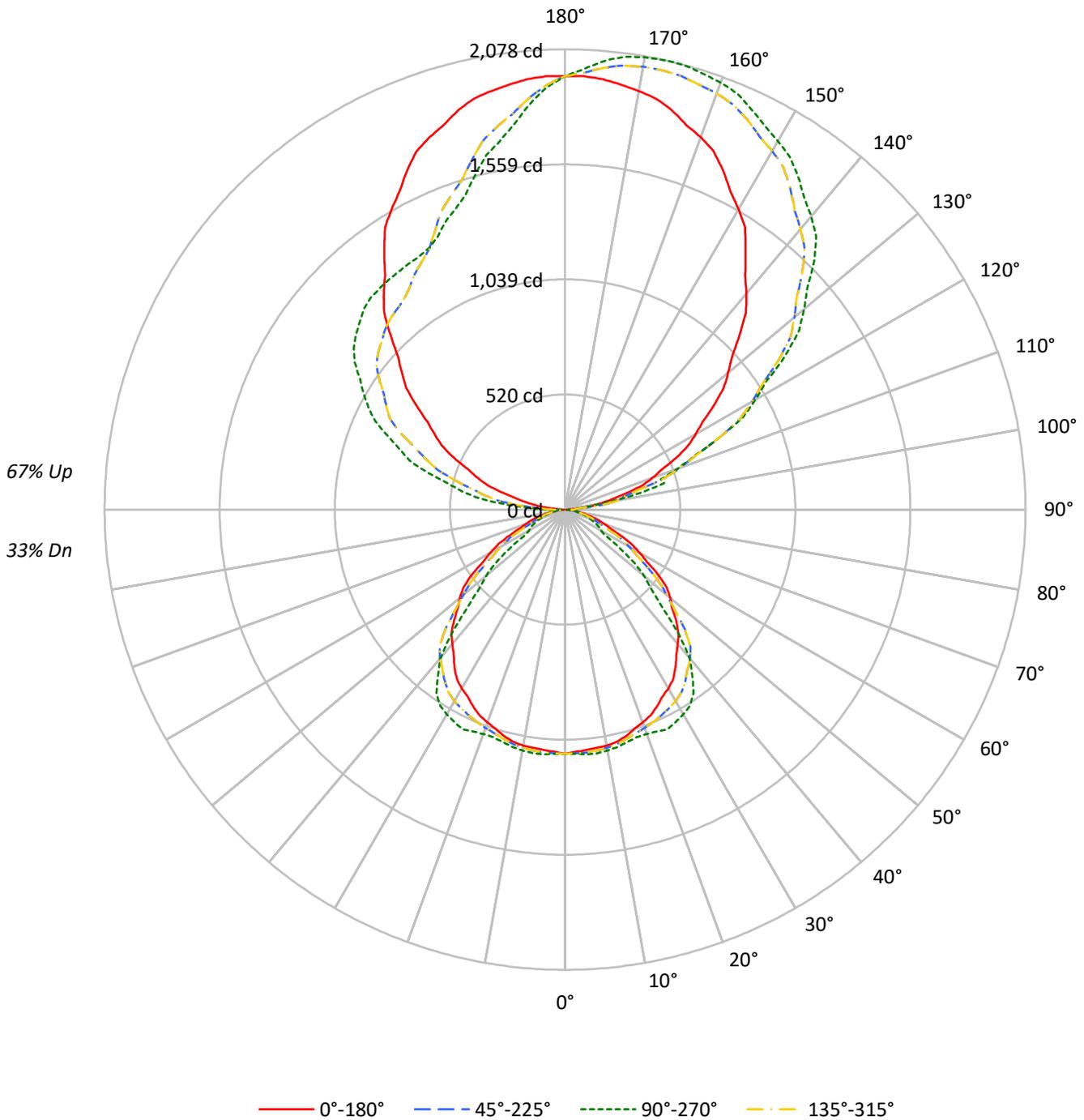
Lumens per Lamp: N/A  
Luminaire Lumens: 8497.4 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.41 / 1.4  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 61.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1428109

CATALOG NUMBER: SQ2W-PP3-K-125U-050D-L840-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	87	83	85	81	78	76	65	63	61	50	49	47	36	35	35	28
2	86	79	73	68	77	72	67	63	57	54	51	44	42	40	32	31	30	24
3	79	70	63	57	71	63	57	52	51	47	43	39	37	34	29	27	26	21
4	72	62	54	49	65	56	50	45	45	41	37	35	32	29	26	24	22	18
5	66	55	47	42	59	50	43	38	40	36	32	32	28	26	23	21	19	16
6	61	49	42	36	55	45	38	33	36	31	28	29	25	22	21	19	17	14
7	56	44	37	31	51	40	34	29	33	28	24	26	22	20	19	17	15	12
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	15	14	11
9	48	37	29	25	44	33	27	23	27	23	19	22	18	16	16	14	12	10
10	45	33	27	22	41	31	24	20	25	20	17	20	17	14	15	13	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	17800	17800	17800	17800
5°	17661	17982	17661	17982
10°	17750	18113	17750	18113
15°	17708	18156	17708	18156
20°	17580	18522	17580	18522
25°	17482	19495	17482	19495
30°	17381	19902	17381	19902
35°	17136	19939	17136	19939
40°	16678	18423	16678	18423
45°	16180	14024	16180	14024
50°	15543	11680	15543	11680
55°	14466	8397	14466	8397
60°	12458	6022	12458	6022
65°	10506	5922	10506	5922
70°	8747	5665	8747	5665
75°	7417	5309	7417	5309
80°	6285	4770	6285	4770
85°	4965	2593	4965	2593

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 17698 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.0	1.2
10°-20°	303.8	3.6
20°-30°	476.0	5.6
30°-40°	587.2	6.9
40°-50°	552.8	6.5
50°-60°	391.4	4.6
60°-70°	223.0	2.6
70°-80°	110.4	1.3
80°-90°	35.1	0.4
90°-100°	155.7	1.8
100°-110°	454.1	5.3
110°-120°	741.1	8.7
120°-130°	940.4	11.1
130°-140°	1006.2	11.8
140°-150°	939.6	11.1
150°-160°	773.1	9.1
160°-170°	518.5	6.1
170°-180°	184.1	2.2
0°-30°	884.8	10.4
0°-40°	1471.9	17.3
0°-60°	2416.1	28.4
0°-90°	2784.7	32.8
90°-120°	1350.9	15.9
90°-150°	4237.0	49.9
90°-180°	5713.0	67.2
0°-180°	8497.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1102	1102	1102	1102	1102	
5°	1090	1110	1090	1110	1090	104
15°	1059	1086	1059	1086	1059	299
25°	981	1094	981	1094	981	452
35°	869	1012	869	1012	869	542
45°	709	614	709	614	709	545
55°	514	298	514	298	514	453
65°	275	155	275	155	275	276
75°	119	85	119	85	119	129
85°	27	14	27	14	27	32
90°	6	44	6	85	6	6
95°	61	46	61	267	61	74
105°	288	462	288	636	288	307
115°	553	767	553	945	553	545
125°	818	1215	818	1158	818	732
135°	1113	1591	1113	1283	1113	860
145°	1421	1834	1421	1310	1421	889
155°	1688	1992	1688	1360	1688	776
165°	1866	2077	1866	1565	1866	525
175°	1951	2034	1951	1836	1951	185
180°	1956	1956	1956	1956	1956	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1094.1	1101.1	1108.2	1106.5	1102.0	1100.1	1100.9	1101.8	1102.6	1103.4	1102.6
5°	1089.7	1098.5	1107.3	1106.0	1101.3	1099.5	1100.5	1102.2	1105.8	1109.5	1105.8
7.5°	1085.5	1094.5	1103.5	1102.3	1097.8	1096.4	1098.1	1100.6	1105.0	1109.5	1105.0
10°	1082.7	1090.4	1098.2	1097.0	1092.9	1092.1	1094.7	1097.6	1101.2	1104.8	1101.2
12.5°	1074.3	1081.6	1089.0	1088.0	1084.3	1084.1	1087.6	1090.9	1094.1	1097.4	1094.1
15°	1059.4	1066.1	1072.8	1073.0	1070.9	1072.2	1076.8	1081.0	1083.6	1086.2	1083.6
17.5°	1039.1	1047.3	1055.4	1057.3	1057.1	1060.3	1067.0	1072.6	1075.3	1078.0	1075.3
20°	1023.2	1033.1	1042.9	1046.2	1047.2	1051.8	1060.1	1067.6	1072.8	1078.0	1072.8
22.5°	1006.4	1017.9	1029.4	1033.7	1035.6	1042.7	1055.2	1066.7	1075.6	1084.5	1075.6
25°	981.3	992.7	1004.1	1012.4	1019.6	1032.3	1050.4	1067.4	1080.9	1094.3	1080.9
27.5°	951.9	963.2	974.5	988.7	1004.0	1021.8	1042.2	1060.2	1070.8	1081.5	1070.8
30°	932.3	943.2	954.1	970.4	988.5	1008.2	1029.4	1047.8	1057.7	1067.5	1057.7
32.5°	908.1	919.4	930.7	948.0	967.4	988.5	1011.4	1030.8	1039.9	1048.9	1039.9
35°	869.4	880.3	891.2	911.4	934.7	958.2	982.1	1001.2	1006.4	1011.6	1006.4
37.5°	824.9	837.2	849.5	872.2	898.3	918.0	931.4	941.5	941.8	942.1	941.8
40°	791.3	807.4	823.4	846.1	871.0	884.7	887.3	887.5	880.8	874.1	880.8
42.5°	758.7	779.3	799.9	818.1	835.5	839.1	828.8	813.7	783.7	753.8	783.7
45°	708.6	732.9	757.3	768.4	775.1	752.3	700.0	655.6	634.9	614.2	634.9
47.5°	655.2	679.2	703.3	700.2	688.1	653.6	596.7	550.5	536.2	521.9	536.2
50°	618.8	641.6	664.4	648.0	618.4	579.6	531.4	491.9	478.5	465.0	478.5
52.5°	577.8	598.1	618.4	593.6	553.7	512.8	470.8	434.2	413.7	393.2	413.7
55°	513.9	527.9	541.9	514.7	473.8	428.7	379.5	337.7	318.0	298.3	318.0
57.5°	437.0	446.9	456.7	435.3	403.5	358.7	300.9	252.0	230.0	207.9	230.0
60°	385.8	393.5	401.3	381.9	353.4	310.6	253.7	208.2	197.3	186.5	197.3
62.5°	339.1	346.1	353.0	332.8	303.4	265.3	218.2	182.0	178.2	174.3	178.2
65°	275.0	281.8	288.5	267.3	236.7	206.9	177.9	156.0	155.5	155.0	155.5
67.5°	218.9	226.2	233.6	213.6	184.5	162.5	147.5	136.2	135.6	135.0	135.6
70°	185.3	193.1	200.8	182.2	154.7	136.9	128.6	122.1	121.1	120.0	121.1
72.5°	157.3	164.7	172.0	155.8	131.6	116.9	111.5	107.3	106.7	106.1	106.7
75°	118.9	124.6	130.3	118.5	100.9	90.8	88.2	86.1	85.6	85.1	85.6
77.5°	86.2	89.9	93.5	85.8	74.3	67.9	66.5	65.4	64.8	64.3	64.8
80°	67.6	69.1	70.7	65.3	57.5	53.3	52.8	52.3	51.8	51.3	51.8
82.5°	50.8	50.3	49.8	46.6	42.6	40.3	39.8	39.2	38.2	37.3	38.2
85°	26.8	25.8	24.7	23.7	22.7	21.1	19.0	17.1	15.5	14.0	15.5
87.5°	9.6	11.2	13.1	13.2	12.3	11.4	11.0	11.1	11.5	11.5	11.5
90°	5.9	13.8	23.7	31.6	37.5	39.5	39.5	41.5	43.5	43.5	43.5
92.5°	21.7	34.4	34.8	34.8	42.3	45.9	49.0	49.4	51.4	51.4	51.4
95°	61.3	67.2	100.8	98.8	67.2	53.4	45.5	45.5	45.5	45.5	45.5
97.5°	117.0	125.7	131.2	175.9	185.8	179.4	146.2	122.9	109.9	104.0	109.9
100°	166.0	170.0	181.8	183.8	233.2	280.6	256.9	227.3	217.4	211.5	217.4
102.5°	215.0	217.4	235.6	243.9	255.3	282.2	364.4	355.3	348.6	347.4	348.6
105°	288.5	290.5	324.1	339.9	347.8	347.8	345.9	385.4	448.6	462.5	448.6
107.5°	367.2	376.3	415.8	458.1	467.2	469.6	459.3	453.4	451.0	452.6	451.0
110°	421.0	434.8	482.2	535.6	549.4	553.4	549.4	543.5	539.5	539.5	539.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	473.1	493.3	547.0	608.3	631.6	643.5	634.8	630.4	626.5	629.7	626.5
115°	553.4	583.0	654.2	717.4	764.8	770.8	768.8	768.8	766.8	766.8	766.8
117.5°	627.7	675.1	754.9	828.5	883.4	899.2	907.1	904.8	902.4	906.3	902.4
120°	679.8	735.2	826.1	909.1	962.5	986.2	994.1	990.1	994.1	990.1	994.1
122.5°	735.2	803.2	892.5	978.7	1041.5	1068.4	1077.9	1078.7	1079.5	1077.1	1079.5
125°	818.2	901.2	1005.9	1094.9	1160.1	1191.7	1199.6	1201.6	1205.5	1215.4	1205.5
127.5°	902.0	996.1	1111.1	1196.9	1263.7	1302.0	1314.2	1318.6	1326.9	1331.2	1326.9
130°	960.5	1067.2	1183.8	1264.8	1330.1	1371.6	1393.3	1399.2	1409.1	1407.1	1409.1
132.5°	1022.1	1133.6	1251.8	1336.0	1396.5	1441.1	1459.7	1476.7	1480.3	1483.0	1480.3
135°	1112.7	1233.2	1351.8	1434.8	1492.1	1535.6	1559.3	1575.1	1585.0	1590.9	1585.0
137.5°	1207.9	1335.2	1449.0	1522.9	1580.7	1618.2	1645.1	1661.7	1672.0	1676.7	1672.0
140°	1272.7	1395.3	1505.9	1583.0	1634.4	1672.0	1695.7	1715.4	1727.3	1727.3	1727.3
142.5°	1334.4	1455.4	1562.9	1639.9	1685.0	1719.4	1744.7	1759.7	1773.1	1773.1	1773.1
145°	1421.0	1541.5	1640.3	1717.4	1755.0	1786.6	1814.3	1826.1	1834.0	1834.0	1834.0
147.5°	1511.5	1618.2	1708.3	1782.2	1813.9	1851.0	1872.7	1882.2	1892.1	1887.8	1892.1
150°	1565.2	1664.1	1751.0	1820.2	1851.8	1887.4	1909.1	1917.0	1926.9	1921.0	1926.9
152.5°	1617.4	1711.5	1790.5	1855.0	1881.8	1917.4	1942.3	1950.2	1956.9	1952.6	1956.9
155°	1687.8	1770.8	1843.9	1903.2	1926.9	1960.5	1984.2	1994.1	2002.0	1992.1	2002.0
157.5°	1750.6	1822.2	1885.8	1940.3	1965.6	1994.5	2016.6	2028.9	2036.8	2032.4	2036.8
160°	1788.6	1853.8	1911.1	1962.5	1986.2	2011.9	2035.6	2049.4	2057.3	2051.4	2057.3
162.5°	1820.2	1879.1	1933.2	1979.9	2000.4	2022.9	2051.4	2063.7	2071.6	2064.1	2071.6
165°	1865.6	1913.1	1960.5	2000.0	2017.8	2035.6	2065.2	2079.1	2085.0	2077.1	2085.0
167.5°	1900.0	1936.4	1974.7	2008.7	2021.8	2039.2	2068.8	2080.3	2087.8	2077.9	2087.8
170°	1919.0	1950.6	1984.2	2011.9	2021.8	2037.6	2067.2	2077.1	2083.0	2073.1	2083.0
172.5°	1934.8	1958.5	1985.8	2010.3	2015.4	2028.1	2056.2	2066.0	2070.4	2062.1	2070.4
175°	1950.6	1964.5	1984.2	2000.0	1998.0	2006.0	2029.7	2037.6	2045.5	2033.6	2045.5
177.5°	1958.1	1964.5	1970.8	1980.3	1973.9	1973.9	1991.3	1996.1	1997.7	1991.3	1997.7
180°	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1101.8	1100.9	1100.1	1102.0	1106.5	1108.2	1101.1	1094.1	1101.1	1108.2	1106.5
5°	1102.2	1100.5	1099.5	1101.3	1106.0	1107.3	1098.5	1089.7	1098.5	1107.3	1106.0
7.5°	1100.6	1098.1	1096.4	1097.8	1102.3	1103.5	1094.5	1085.5	1094.5	1103.5	1102.3
10°	1097.6	1094.7	1092.1	1092.9	1097.0	1098.2	1090.4	1082.7	1090.4	1098.2	1097.0
12.5°	1090.9	1087.6	1084.1	1084.3	1088.0	1089.0	1081.6	1074.3	1081.6	1089.0	1088.0
15°	1081.0	1076.8	1072.2	1070.9	1073.0	1072.8	1066.1	1059.4	1066.1	1072.8	1073.0
17.5°	1072.6	1067.0	1060.3	1057.1	1057.3	1055.4	1047.3	1039.1	1047.3	1055.4	1057.3
20°	1067.6	1060.1	1051.8	1047.2	1046.2	1042.9	1033.1	1023.2	1033.1	1042.9	1046.2
22.5°	1066.7	1055.2	1042.7	1035.6	1033.7	1029.4	1017.9	1006.4	1017.9	1029.4	1033.7
25°	1067.4	1050.4	1032.3	1019.6	1012.4	1004.1	992.7	981.3	992.7	1004.1	1012.4
27.5°	1060.2	1042.2	1021.8	1004.0	988.7	974.5	963.2	951.9	963.2	974.5	988.7
30°	1047.8	1029.4	1008.2	988.5	970.4	954.1	943.2	932.3	943.2	954.1	970.4
32.5°	1030.8	1011.4	988.5	967.4	948.0	930.7	919.4	908.1	919.4	930.7	948.0
35°	1001.2	982.1	958.2	934.7	911.4	891.2	880.3	869.4	880.3	891.2	911.4
37.5°	941.5	931.4	918.0	898.3	872.2	849.5	837.2	824.9	837.2	849.5	872.2
40°	887.5	887.3	884.7	871.0	846.1	823.4	807.4	791.3	807.4	823.4	846.1
42.5°	813.7	828.8	839.1	835.5	818.1	799.9	779.3	758.7	779.3	799.9	818.1
45°	655.6	700.0	752.3	775.1	768.4	757.3	732.9	708.6	732.9	757.3	768.4
47.5°	550.5	596.7	653.6	688.1	700.2	703.3	679.2	655.2	679.2	703.3	700.2
50°	491.9	531.4	579.6	618.4	648.0	664.4	641.6	618.8	641.6	664.4	648.0
52.5°	434.2	470.8	512.8	553.7	593.6	618.4	598.1	577.8	598.1	618.4	593.6
55°	337.7	379.5	428.7	473.8	514.7	541.9	527.9	513.9	527.9	541.9	514.7
57.5°	252.0	300.9	358.7	403.5	435.3	456.7	446.9	437.0	446.9	456.7	435.3
60°	208.2	253.7	310.6	353.4	381.9	401.3	393.5	385.8	393.5	401.3	381.9
62.5°	182.0	218.2	265.3	303.4	332.8	353.0	346.1	339.1	346.1	353.0	332.8
65°	156.0	177.9	206.9	236.7	267.3	288.5	281.8	275.0	281.8	288.5	267.3
67.5°	136.2	147.5	162.5	184.5	213.6	233.6	226.2	218.9	226.2	233.6	213.6
70°	122.1	128.6	136.9	154.7	182.2	200.8	193.1	185.3	193.1	200.8	182.2
72.5°	107.3	111.5	116.9	131.6	155.8	172.0	164.7	157.3	164.7	172.0	155.8
75°	86.1	88.2	90.8	100.9	118.5	130.3	124.6	118.9	124.6	130.3	118.5
77.5°	65.4	66.5	67.9	74.3	85.8	93.5	89.9	86.2	89.9	93.5	85.8
80°	52.3	52.8	53.3	57.5	65.3	70.7	69.1	67.6	69.1	70.7	65.3
82.5°	39.2	39.8	40.3	42.6	46.6	49.8	50.3	50.8	50.3	49.8	46.6
85°	17.1	19.0	21.1	22.7	23.7	24.7	25.8	26.8	25.8	24.7	23.7
87.5°	11.1	11.0	11.4	12.3	13.2	13.1	11.2	9.6	11.2	12.7	14.0
90°	41.5	39.5	39.5	37.5	31.6	23.7	13.8	5.9	13.8	21.7	35.6
92.5°	49.4	49.0	45.9	42.3	34.8	34.8	34.4	21.7	37.5	53.4	76.7
95°	45.5	45.5	53.4	67.2	98.8	100.8	67.2	61.3	87.0	122.5	154.2
97.5°	122.9	146.2	179.4	185.8	175.9	131.2	125.7	117.0	159.3	194.5	245.5
100°	227.3	256.9	280.6	233.2	183.8	181.8	170.0	166.0	211.5	245.1	294.5
102.5°	355.3	364.4	282.2	255.3	243.9	235.6	217.4	215.0	260.5	306.7	348.2
105°	385.4	345.9	347.8	347.8	339.9	324.1	290.5	288.5	339.9	393.3	444.7
107.5°	453.4	459.3	469.6	467.2	458.1	415.8	376.3	367.2	413.4	477.5	534.0
110°	543.5	549.4	553.4	549.4	535.6	482.2	434.8	421.0	462.5	529.7	590.9



TEST NUMBER: P1428109

CATALOG NUMBER: SQ2W-PP3-K-125U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	630.4	634.8	643.5	631.6	608.3	547.0	493.3	473.1	514.6	583.4	646.3
115°	768.8	768.8	770.8	764.8	717.4	654.2	583.0	553.4	588.9	652.2	721.4
117.5°	904.8	907.1	899.2	883.4	828.5	754.9	675.1	627.7	655.7	722.5	793.7
120°	990.1	994.1	986.2	962.5	909.1	826.1	735.2	679.8	701.6	766.8	838.0
122.5°	1078.7	1077.9	1068.4	1041.5	978.7	892.5	803.2	735.2	744.3	804.8	874.3
125°	1201.6	1199.6	1191.7	1160.1	1094.9	1005.9	901.2	818.2	806.3	857.7	928.9
127.5°	1318.6	1314.2	1302.0	1263.7	1196.9	1111.1	996.1	902.0	875.5	907.9	973.1
130°	1399.2	1393.3	1371.6	1330.1	1264.8	1183.8	1067.2	960.5	922.9	942.7	1000.0
132.5°	1476.7	1459.7	1441.1	1396.5	1336.0	1251.8	1133.6	1022.1	970.4	979.1	1023.7
135°	1575.1	1559.3	1535.6	1492.1	1434.8	1351.8	1233.2	1112.7	1041.5	1033.6	1059.3
137.5°	1661.7	1645.1	1618.2	1580.7	1522.9	1449.0	1335.2	1207.9	1118.2	1091.7	1101.6
140°	1715.4	1695.7	1672.0	1634.4	1583.0	1505.9	1395.3	1272.7	1172.0	1134.4	1128.5
142.5°	1759.7	1744.7	1719.4	1685.0	1639.9	1562.9	1455.4	1334.4	1227.3	1178.7	1164.8
145°	1826.1	1814.3	1786.6	1755.0	1717.4	1640.3	1541.5	1421.0	1314.2	1251.0	1221.4
147.5°	1882.2	1872.7	1851.0	1813.9	1782.2	1708.3	1618.2	1511.5	1402.0	1323.7	1285.4
150°	1917.0	1909.1	1887.4	1851.8	1820.2	1751.0	1664.1	1565.2	1460.5	1377.5	1328.1
152.5°	1950.2	1942.3	1917.4	1881.8	1855.0	1790.5	1711.5	1617.4	1511.1	1428.1	1377.1
155°	1994.1	1984.2	1960.5	1926.9	1903.2	1843.9	1770.8	1687.8	1596.9	1509.9	1452.6
157.5°	2028.9	2016.6	1994.5	1965.6	1940.3	1885.8	1822.2	1750.6	1671.2	1588.2	1529.7
160°	2049.4	2035.6	2011.9	1986.2	1962.5	1911.1	1853.8	1788.6	1715.4	1640.3	1577.1
162.5°	2063.7	2051.4	2022.9	2000.4	1979.9	1933.2	1879.1	1820.2	1755.0	1689.3	1630.8
165°	2079.1	2065.2	2035.6	2017.8	2000.0	1960.5	1913.1	1865.6	1810.3	1756.9	1709.5
167.5°	2080.3	2068.8	2039.2	2021.8	2008.7	1974.7	1936.4	1900.0	1856.9	1815.0	1775.5
170°	2077.1	2067.2	2037.6	2021.8	2011.9	1984.2	1950.6	1919.0	1885.4	1849.8	1818.2
172.5°	2066.0	2056.2	2028.1	2015.4	2010.3	1985.8	1958.5	1934.8	1906.0	1879.9	1854.6
175°	2037.6	2029.7	2006.0	1998.0	2000.0	1984.2	1964.5	1950.6	1932.8	1917.0	1903.2
177.5°	1996.1	1991.3	1973.9	1973.9	1980.3	1970.8	1964.5	1958.1	1950.2	1945.5	1940.7
180°	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5



TEST NUMBER: P1428109

CATALOG NUMBER: SQ2W-PP3-K-125U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1102.0	1100.1	1100.9	1101.8	1102.6	1103.4	1102.6	1101.8	1100.9	1100.1	1102.0
5°	1101.3	1099.5	1100.5	1102.2	1105.8	1109.5	1105.8	1102.2	1100.5	1099.5	1101.3
7.5°	1097.8	1096.4	1098.1	1100.6	1105.0	1109.5	1105.0	1100.6	1098.1	1096.4	1097.8
10°	1092.9	1092.1	1094.7	1097.6	1101.2	1104.8	1101.2	1097.6	1094.7	1092.1	1092.9
12.5°	1084.3	1084.1	1087.6	1090.9	1094.1	1097.4	1094.1	1090.9	1087.6	1084.1	1084.3
15°	1070.9	1072.2	1076.8	1081.0	1083.6	1086.2	1083.6	1081.0	1076.8	1072.2	1070.9
17.5°	1057.1	1060.3	1067.0	1072.6	1075.3	1078.0	1075.3	1072.6	1067.0	1060.3	1057.1
20°	1047.2	1051.8	1060.1	1067.6	1072.8	1078.0	1072.8	1067.6	1060.1	1051.8	1047.2
22.5°	1035.6	1042.7	1055.2	1066.7	1075.6	1084.5	1075.6	1066.7	1055.2	1042.7	1035.6
25°	1019.6	1032.3	1050.4	1067.4	1080.9	1094.3	1080.9	1067.4	1050.4	1032.3	1019.6
27.5°	1004.0	1021.8	1042.2	1060.2	1070.8	1081.5	1070.8	1060.2	1042.2	1021.8	1004.0
30°	988.5	1008.2	1029.4	1047.8	1057.7	1067.5	1057.7	1047.8	1029.4	1008.2	988.5
32.5°	967.4	988.5	1011.4	1030.8	1039.9	1048.9	1039.9	1030.8	1011.4	988.5	967.4
35°	934.7	958.2	982.1	1001.2	1006.4	1011.6	1006.4	1001.2	982.1	958.2	934.7
37.5°	898.3	918.0	931.4	941.5	941.8	942.1	941.8	941.5	931.4	918.0	898.3
40°	871.0	884.7	887.3	887.5	880.8	874.1	880.8	887.5	887.3	884.7	871.0
42.5°	835.5	839.1	828.8	813.7	783.7	753.8	783.7	813.7	828.8	839.1	835.5
45°	775.1	752.3	700.0	655.6	634.9	614.2	634.9	655.6	700.0	752.3	775.1
47.5°	688.1	653.6	596.7	550.5	536.2	521.9	536.2	550.5	596.7	653.6	688.1
50°	618.4	579.6	531.4	491.9	478.5	465.0	478.5	491.9	531.4	579.6	618.4
52.5°	553.7	512.8	470.8	434.2	413.7	393.2	413.7	434.2	470.8	512.8	553.7
55°	473.8	428.7	379.5	337.7	318.0	298.3	318.0	337.7	379.5	428.7	473.8
57.5°	403.5	358.7	300.9	252.0	230.0	207.9	230.0	252.0	300.9	358.7	403.5
60°	353.4	310.6	253.7	208.2	197.3	186.5	197.3	208.2	253.7	310.6	353.4
62.5°	303.4	265.3	218.2	182.0	178.2	174.3	178.2	182.0	218.2	265.3	303.4
65°	236.7	206.9	177.9	156.0	155.5	155.0	155.5	156.0	177.9	206.9	236.7
67.5°	184.5	162.5	147.5	136.2	135.6	135.0	135.6	136.2	147.5	162.5	184.5
70°	154.7	136.9	128.6	122.1	121.1	120.0	121.1	122.1	128.6	136.9	154.7
72.5°	131.6	116.9	111.5	107.3	106.7	106.1	106.7	107.3	111.5	116.9	131.6
75°	100.9	90.8	88.2	86.1	85.6	85.1	85.6	86.1	88.2	90.8	100.9
77.5°	74.3	67.9	66.5	65.4	64.8	64.3	64.8	65.4	66.5	67.9	74.3
80°	57.5	53.3	52.8	52.3	51.8	51.3	51.8	52.3	52.8	53.3	57.5
82.5°	42.6	40.3	39.8	39.2	38.2	37.3	38.2	39.2	39.8	40.3	42.6
85°	22.7	21.1	19.0	17.1	15.5	14.0	15.5	17.1	19.0	21.1	22.7
87.5°	13.9	15.4	17.7	19.0	20.6	19.8	20.6	19.0	17.7	15.4	13.9
90°	45.5	59.3	73.1	81.0	88.9	85.0	88.9	81.0	73.1	59.3	45.5
92.5°	91.3	114.6	131.6	145.9	152.2	151.4	152.2	145.9	131.6	114.6	91.3
95°	183.8	211.5	239.1	258.9	270.8	266.8	270.8	258.9	239.1	211.5	183.8
97.5°	283.4	320.6	351.4	370.0	381.8	389.7	381.8	370.0	351.4	320.6	283.4
100°	349.8	385.4	421.0	442.7	462.5	470.4	462.5	442.7	421.0	385.4	349.8
102.5°	403.6	450.2	488.9	512.3	528.9	536.8	528.9	512.3	488.9	450.2	403.6
105°	492.1	541.5	583.0	612.7	630.4	636.4	630.4	612.7	583.0	541.5	492.1
107.5°	580.6	631.6	670.0	702.8	724.5	737.2	724.5	702.8	670.0	631.6	580.6
110°	650.2	691.7	733.2	762.9	784.6	792.5	784.6	762.9	733.2	691.7	650.2



TEST NUMBER: P1428109

CATALOG NUMBER: SQ2W-PP3-K-125U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	708.7	754.9	796.5	826.1	851.0	862.1	851.0	826.1	796.5	754.9	708.7
115°	790.5	851.8	889.3	917.0	934.8	944.7	934.8	917.0	889.3	851.8	790.5
117.5°	858.5	922.5	963.6	985.0	993.3	1000.4	993.3	985.0	963.6	922.5	858.5
120°	901.2	960.5	1007.9	1035.6	1045.5	1049.4	1045.5	1035.6	1007.9	960.5	901.2
122.5°	940.7	996.8	1042.7	1076.7	1092.9	1096.9	1092.9	1076.7	1042.7	996.8	940.7
125°	996.1	1049.4	1096.9	1130.4	1148.2	1158.1	1148.2	1130.4	1096.9	1049.4	996.1
127.5°	1044.3	1102.0	1145.5	1175.9	1193.3	1201.2	1193.3	1175.9	1145.5	1102.0	1044.3
130°	1071.2	1130.4	1173.9	1207.5	1223.3	1231.2	1223.3	1207.5	1173.9	1130.4	1071.2
132.5°	1091.7	1154.2	1199.2	1229.7	1247.1	1255.0	1247.1	1229.7	1199.2	1154.2	1091.7
135°	1116.6	1181.8	1229.3	1258.9	1274.7	1282.6	1274.7	1258.9	1229.3	1181.8	1116.6
137.5°	1138.4	1197.6	1247.1	1278.3	1292.5	1297.6	1292.5	1278.3	1247.1	1197.6	1138.4
140°	1154.2	1205.5	1255.0	1284.6	1300.4	1302.4	1300.4	1284.6	1255.0	1205.5	1154.2
142.5°	1174.7	1215.0	1258.1	1287.8	1303.6	1307.1	1303.6	1287.8	1258.1	1215.0	1174.7
145°	1211.5	1235.2	1264.8	1292.5	1306.3	1310.3	1306.3	1292.5	1264.8	1235.2	1211.5
147.5°	1257.7	1265.2	1280.6	1298.8	1312.3	1315.0	1312.3	1298.8	1280.6	1265.2	1257.7
150°	1292.5	1290.5	1296.5	1308.3	1320.2	1318.2	1320.2	1308.3	1296.5	1290.5	1292.5
152.5°	1332.0	1320.6	1320.2	1325.7	1331.2	1330.8	1331.2	1325.7	1320.2	1320.6	1332.0
155°	1399.2	1377.5	1365.6	1361.7	1361.7	1359.7	1361.7	1361.7	1365.6	1377.5	1399.2
157.5°	1473.1	1442.7	1424.9	1415.4	1412.7	1408.3	1412.7	1415.4	1424.9	1442.7	1473.1
160°	1523.7	1490.1	1472.3	1456.5	1450.6	1444.7	1450.6	1456.5	1472.3	1490.1	1523.7
162.5°	1571.2	1539.1	1519.8	1505.6	1499.6	1490.5	1499.6	1505.6	1519.8	1539.1	1571.2
165°	1648.2	1614.6	1592.9	1581.0	1573.1	1565.2	1573.1	1581.0	1592.9	1614.6	1648.2
167.5°	1725.3	1688.6	1674.3	1660.9	1653.4	1639.1	1653.4	1660.9	1674.3	1688.6	1725.3
170°	1772.7	1739.2	1731.2	1719.4	1705.6	1689.7	1705.6	1719.4	1731.2	1739.2	1772.7
172.5°	1813.9	1791.3	1783.4	1771.6	1767.2	1754.6	1767.2	1771.6	1783.4	1791.3	1813.9
175°	1873.5	1855.8	1855.8	1853.8	1847.8	1836.0	1847.8	1853.8	1855.8	1855.8	1873.5
177.5°	1923.3	1913.9	1920.2	1920.2	1918.6	1907.5	1918.6	1920.2	1920.2	1913.9	1923.3
180°	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5



TEST NUMBER: P1428109

CATALOG NUMBER: SQ2W-PP3-K-125U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1102.5	1102.5	1102.5	1102.5
2.5°	1106.5	1108.2	1101.1	1094.1
5°	1106.0	1107.3	1098.5	1089.7
7.5°	1102.3	1103.5	1094.5	1085.5
10°	1097.0	1098.2	1090.4	1082.7
12.5°	1088.0	1089.0	1081.6	1074.3
15°	1073.0	1072.8	1066.1	1059.4
17.5°	1057.3	1055.4	1047.3	1039.1
20°	1046.2	1042.9	1033.1	1023.2
22.5°	1033.7	1029.4	1017.9	1006.4
25°	1012.4	1004.1	992.7	981.3
27.5°	988.7	974.5	963.2	951.9
30°	970.4	954.1	943.2	932.3
32.5°	948.0	930.7	919.4	908.1
35°	911.4	891.2	880.3	869.4
37.5°	872.2	849.5	837.2	824.9
40°	846.1	823.4	807.4	791.3
42.5°	818.1	799.9	779.3	758.7
45°	768.4	757.3	732.9	708.6
47.5°	700.2	703.3	679.2	655.2
50°	648.0	664.4	641.6	618.8
52.5°	593.6	618.4	598.1	577.8
55°	514.7	541.9	527.9	513.9
57.5°	435.3	456.7	446.9	437.0
60°	381.9	401.3	393.5	385.8
62.5°	332.8	353.0	346.1	339.1
65°	267.3	288.5	281.8	275.0
67.5°	213.6	233.6	226.2	218.9
70°	182.2	200.8	193.1	185.3
72.5°	155.8	172.0	164.7	157.3
75°	118.5	130.3	124.6	118.9
77.5°	85.8	93.5	89.9	86.2
80°	65.3	70.7	69.1	67.6
82.5°	46.6	49.8	50.3	50.8
85°	23.7	24.7	25.8	26.8
87.5°	14.0	12.7	11.2	9.6
90°	35.6	21.7	13.8	5.9
92.5°	76.7	53.4	37.5	21.7
95°	154.2	122.5	87.0	61.3
97.5°	245.5	194.5	159.3	117.0
100°	294.5	245.1	211.5	166.0
102.5°	348.2	306.7	260.5	215.0
105°	444.7	393.3	339.9	288.5
107.5°	534.0	477.5	413.4	367.2
110°	590.9	529.7	462.5	421.0



TEST NUMBER: P1428109

CATALOG NUMBER: SQ2W-PP3-K-125U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	646.3	583.4	514.6	473.1
115°	721.4	652.2	588.9	553.4
117.5°	793.7	722.5	655.7	627.7
120°	838.0	766.8	701.6	679.8
122.5°	874.3	804.8	744.3	735.2
125°	928.9	857.7	806.3	818.2
127.5°	973.1	907.9	875.5	902.0
130°	1000.0	942.7	922.9	960.5
132.5°	1023.7	979.1	970.4	1022.1
135°	1059.3	1033.6	1041.5	1112.7
137.5°	1101.6	1091.7	1118.2	1207.9
140°	1128.5	1134.4	1172.0	1272.7
142.5°	1164.8	1178.7	1227.3	1334.4
145°	1221.4	1251.0	1314.2	1421.0
147.5°	1285.4	1323.7	1402.0	1511.5
150°	1328.1	1377.5	1460.5	1565.2
152.5°	1377.1	1428.1	1511.1	1617.4
155°	1452.6	1509.9	1596.9	1687.8
157.5°	1529.7	1588.2	1671.2	1750.6
160°	1577.1	1640.3	1715.4	1788.6
162.5°	1630.8	1689.3	1755.0	1820.2
165°	1709.5	1756.9	1810.3	1865.6
167.5°	1775.5	1815.0	1856.9	1900.0
170°	1818.2	1849.8	1885.4	1919.0
172.5°	1854.6	1879.9	1906.0	1934.8
175°	1903.2	1917.0	1932.8	1950.6
177.5°	1940.7	1945.5	1950.2	1958.1
180°	1956.5	1956.5	1956.5	1956.5



TEST NUMBER: P1428109  
 CATALOG NUMBER: SQ2W-PP3-K-125U-050D-L840-UNV-STD-W-WM-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.59	16.30	16.69	17.39	18.89	11.36	12.07	12.46	13.16	14.66
	3H	16.64	17.27	17.74	18.37	19.88	12.66	13.29	13.76	14.39	15.91
	4H	17.00	17.60	18.11	18.70	20.22	13.21	13.80	14.32	14.91	16.43
	6H	17.18	17.73	18.31	18.84	20.37	13.56	14.11	14.69	15.22	16.75
	8H	17.24	17.76	18.37	18.88	20.41	13.69	14.21	14.81	15.33	16.86
	12H	17.26	17.75	18.39	18.87	20.42	13.72	14.21	14.85	15.33	16.88
4H	2H	15.69	16.29	16.81	17.39	18.91	12.25	12.85	13.37	13.95	15.47
	3H	16.97	17.46	18.10	18.59	20.13	13.66	14.15	14.79	15.28	16.82
	4H	17.47	17.93	18.60	19.04	20.60	14.27	14.73	15.40	15.85	17.40
	6H	17.78	18.17	18.91	19.31	20.85	14.71	15.10	15.85	16.24	17.79
	8H	17.88	18.25	19.02	19.38	20.94	14.88	15.24	16.02	16.37	17.94
	12H	17.92	18.25	19.07	19.39	20.96	14.92	15.25	16.07	16.39	17.96
8H	4H	17.48	17.84	18.62	18.97	20.54	14.57	14.93	15.71	16.07	17.63
	6H	17.88	18.18	19.04	19.36	20.92	15.12	15.42	16.28	16.60	18.16
	8H	18.06	18.33	19.23	19.48	21.06	15.37	15.63	16.54	16.79	18.37
	12H	18.15	18.39	19.32	19.54	21.15	15.47	15.70	16.63	16.85	18.46
12H	4H	17.43	17.76	18.58	18.90	20.47	14.58	14.91	15.73	16.05	17.62
	6H	17.88	18.14	19.04	19.29	20.87	15.19	15.45	16.35	16.61	18.19
	8H	18.07	18.30	19.23	19.45	21.06	15.46	15.69	16.63	16.84	18.45